

# CARRIER

MDARC FIELD DAY CALL W6CX?; 2M REPEATER WR6AHK; 220 REPEATER WR6ARG; MEMORIAL CALLSIGN W6LGW  
Volume XXVI March 1978 No. 3

THIS IS THE MONTHLY CLUB PAPER OF THE MT. DIABLO AMATEUR RADIO CLUB, INC.

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Committees: Education Ch. WB6SNW; Door Prize Ch. WB6TZQ; Membership Ch. WB6BIX; TVI Committee  
K6DQL, K6IMV, N6GQ, K6VLH; Repeater Grp. Ch. WB6PUA; Rptr. Grp. Treas. WB6DHH; Field Day Ch.  
WA6JUD; Tech. Forum WB6YXT; Publicity WB6JGV; Novice Net WD6CGS with WA6QCZ & WD6APL. The  
CARRIER folders for February were WB6AEG & XYL Lois, N6GQ & XYL Alma, K6IMV, K6OBB, WB6FOA,  
WA6IVS, WB6LMI, W6CU & XYL Mildred. Mail, phone, or give all articles for the CARRIER to  
Managing Editor (typist) Hal Mumford ph. 974-4728. CARRIER contents can be quoted freely.

\* \* \* Meeting Notice \* \* \*

## AUCTION AUCTION AUCTION AUCTION AUCTION

at our usual meeting place

GRACE PRESBYTERIAN CHURCH, 2100 Tice Valley  
Blvd., Walnut Creek Friday March 17, 1978  
rooms 4 & 5 "THE THIRD FRIDAY OF THE MONTH"  
There will be door prizes. DO NOT SMOKE IN  
THE CHURCH BUILDING. USE SQUARE FLOWERPOT-  
TYPE RECEPTACLES OUTSIDE CHURCH BUILDING FOR  
CIGARETTE ASHES.

BRING ITEMS AT 6 PM AND GET THEM MARKED  
Auction starts at 7 p.m.

AUCTION RULES (1) Club gets 10% of selling  
price, with a maximum of \$5. However, "buy  
backs" have a maximum fee of \$1. Club gets a  
straight 10% of a deceased person's equipment.  
If you want the Club to get 100%, say so on  
the tag on the item. (2) Everyone (buyers and  
sellers) gets a number on a card. Hold up  
your numbered card when you bid. All sellers  
are entitled to have 3 items sold during  
"prime time" (example, if your number is 34,  
number your "prime time" items 34A, 34B, 34C).  
(3) Sellers' tags (attached to each item)  
will have spaces for "silent bids" prior to  
the time the item is auctioned. A "minimum

bid" written on the item's tag by the seller  
will be regarded as an open bid and subject  
to "buy back" rules. (4) Bids should not be  
less than 25¢ increments. (5) All sold and  
unsold items must be removed at the end of the  
auction. (6) Pay the Club. Don't pay the sell-  
er. He gets his money later - minus the Club's  
commission.

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## OTHER PLANNED ACTIVITIES

AM RACES Net: Mondays 145.32 MHz 7 p.m.  
& 50.68 MHz 7:15 p.m. Net control K6IMV  
Novice Code Practice: Mondays 8 p.m. to  
8:30 p.m. 21.150 MHz followed by,  
Mt. Diablo Novice Training Net (MDNTN)  
8:30 p.m. to 9:00 p.m. Mondays 21.150 5 to  
8 WPM. Net control WD6CGS with WA6QCZ & WD6APL.  
Technical Forum: Monday nights. On March  
13 it's 8-9 p.m. on 21.375 MHz. Starting  
March 20 it's 9-10 p.m. Net control is Dennis  
Leslie WB6YXT. Omit April 3 (Board Meeting)  
Radio Classes: 7 p.m. College Park H.S.  
Tuesdays. Ask about March 21 (Spring Vacation)  
Xmtr Hunts: Saturdays as announced on 2M  
COMSAT Satellite Test April 1, 1978. See  
details in this issue.  
Board Meets April 3. QTH WA6TML.  
Repeater Meeting: May 10, 1978.

M.D.A.R.C. Meeting of Feb. 17, 1978

Reported for WB6FOA by W6CU

The meeting was called to order shortly after 8 p.m. by our Pres. Dick Webster WA6OJT. About 78 persons signed in for the meeting but some didn't sign in.

In the absence of our Treas. John Clyde WA6TML, Dick reported that we had \$628 in savings and \$1366 in the checking account. That's about normal for this time of year. Dick pointed out that about 75% of membership dues are spent throughout the year for CARRIER postage and printing.

In the absence of Harry Howe WB6BIX, it was reported that we have (as of Feb. 17) about 217 paid-up 1978 members. That's about normal for this time of year.

After a few introductions and upgrading announcements (with applause) which came so fast that they could not be legibly written down, those present were reminded (a) that there were a few places left for the George Washington's breakfast, (b) that our March meeting will be an auction, (c) that all are welcome on the Novice Net, and (d) that those who smoke outside at our meetings should use the flowerpot-type wooden square containers which are available for cigarette ashes.

Steve Overacker WA6HAM volunteered to attend the Armed Forces Day meeting when a notice of a meeting is received.

In the absence of our Education Chairman Chuck Welch WA6MMU who had to go to Japan again, it was announced that volunteers are wanted who can help out on some of the basic theory and code instruction at our classes. It was urged that those who give a Novice-type examination should also help the Novice get on the air.

Adjournment was at 8:27 p.m. followed by refreshments, after which a very excellent talk was given by Larry Kaye W6CPO on the subject: "New Technologies as Applied to Amateur Radio".

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M.D.A.R.C. BOARD MEETING FEBRUARY 27, 1978

The Board met at the QTH of Ted Durst W6PFW. Dick Webster WA6OJT presided with the following present: WA6TML, WB6FOA, W6LKE, W6PFW, WB6PUA, W6CU, K6IMV, VE2AQV, WA6JLF, WA6IVS, and WB6TZQ.

The minutes of Jan. 30th Board Meeting were approved. Correspondence: "Walnut Creek Unity Center wishes to thank you for the Love Offering given in memory of Marvin Bassett. God bless you. Rev. C.R. Karr." A notice of Nevada Am. Radio Ass. sponsoring the 1978 Pac. Div. ARRL Convention & Sierra Hamfest Aug. 12 & 13th at the Holiday Inn, Reno. Also the Fresno Am. Radio Club, Inc. Annual Ham-

fest May 5-7th.

Art VE2AQV gave a report on the auction which is to be March 17 at our regular meeting place, Grace Presbyterian Church in W.C. Treasurer's Report: Checking \$1135.07 and \$628.77 in Savings. Cash on hand from Wash. Birthday Breakfast \$148.00; dues and miscellaneous \$252.00. A check of \$100.00 donation was given to the Secretary to mail a letter of appreciation for our meeting rooms to Grace Presbyterian Church. Treasurer reported that the Club Counter has been sold.

Our Education Chairman Chuck Welch is in Japan for three months. We are in need of someone to fill this position.

President Dick said the Novice Net check-ins have been small, and Jim Presley is Net Control. He reported in the absence of Harry Howe that we have 235 members to date. A motion was made and carried that the Board accept the applicants. Dick reported that the new membership directory is ready to go to press. Motion was made and carried that the advertising for the Base Station in the new directory be \$37.50.

Dwayne reported that Armed Forces Day will be May 20th.

TVI Comm.: Parky reported Lee Hertzberg not able to be present due to illness. The Comm. has investigated all reports to them and all is OK. The TVI Committee needs use of Rabbit Ears in their line of work.

Door Prize Comm. Hank WB6TZQ reported a fund of \$41.00. Hal W6CU reported we have ten members of long standing who have not yet renewed for 1978. A motion made and carried that we make an exception this one time and send a reminder to these ten people. Was reported Vince Cronin WA6KDA is ill. The Secretary will send a card. Hal also reports that in the new 1978 callbook supplement there are 33 new hams in our area. A motion made and carried that an issue of the CARRIER be sent to each.

Jay Caldis WB6PUA, Repeater Chairman reported on the repeater.

The Club has received the \$50 from the P.H. Rec. Dept. for our last Christmas Party deposit. The Secretary was instructed to reserve the P.H. Rec. Hall for the 1978 Christmas Party for the Club - to try to get Dec. 15 or 17th.

Motion made and carried to ask the Club to appropriate \$100 for Field Day for ice, soda water, breakfast, etc.

Motion made and carried that one year subscription to the CARRIER be given to WA6ZHE for services rendered.

Future Board Meetings: April 3 at the QTH of WA6TML, April 24 QTH is VE2AQV/WA6AGP.

Motion made and carried adjourn 10:20 p.m.

Thank you Ruth and Ted for delicious refreshments.

Respectfully submitted  
Salley Nikkel (WB6FOA)  
Secretary



# THE PRESIDENT'S CORNER

I am pleased to announce that Paul Martz WB6SNW has agreed to take over as chairman of our Education Committee. This is necessary because Chuck has gone to Japan on business and will not be back until some time this summer.

Also, we are planning to have your copy of the Membership Directory available at the auction Friday night. Please pick yours up and save us another stamp. If you would like to help fold and staple them this Thursday night, please phone me. We need lots of help.

If you have an amateur license and don't know what QNI means, try checking into our Novice Training Net. (See info elsewhere in this CARRIER.) I'm not much of a CW operator myself, but I have been checking in. Who knows, we all might learn something.

73

Dick

- o o o o -  
Congratulations to Helen Rinker WB6YWC who is now General, Ruby Lankford WA6KWX who is now Advanced, and Jim Presley WD6CGS who is now Advanced. (Thanks for this news, Parky.)

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## THIS MONTH IS SCRATCH TIME

Your name might be on the 1977-1978 Membership Directory, but if you have not paid for 1978, your name has been scratched from our mailing list.



## MDARC REPEATER GROUP REPORT

The first quarterly meeting was held in February and seemed to be a success. It seems that just a few days prior to the meeting the repeater went off the air. Everybody thought that everybody else knew what was wrong and that things would be fixed shortly. Well, as it turned out nobody notified anybody and each thought that the other was taking care of it. The result was that the repeater was down longer than it should have been. It could have been taken care of in a few minutes. The Moral to this boring story is: please notify a high mucky muck or others so we can get it going. An example being: I was advised that the repeater would not come up on secondary, so I attempted to bring it up on primary control and up it came. A few hour's problem solved very quickly.

We now have a working autopatch (phone). It is to be used for emergencies only - no pleasure calls, or calls home to say "I'll be 5 minutes late", etc. It has already been used a couple of times with great success. Salley WB6FOA had big problems with her great big camper and Pete WB6YBE put her in contact with AAA and got her a tow. I understand it would have been a real nice problem without the patch and AHK.

Some good guidelines to follow in using the autopatch or any phone patch are as follows:

1. International phone patches should be used only when there is a third party agreement.
2. Do not conduct business affairs at any time.
3. Abide by telephone company tariffs.
4. Never make a patch to avoid a telephone toll charge.
5. Never have a third party use a foreign language that you do not understand.
6. Terminate immediately in the event of any illegality or impropriety.
7. Patches are not to be made to broadcast information to the public.
8. Station identification and logging regulations should be observed.
9. Consider the rights of other amateurs when you decide to use the autopatch or regular HF patch.
10. Keep the patch as brief as possible.
11. If you have a doubt about your patch, don't make it.

I have some copies of how to put a 450 MHz Prog. on 220 MHz. This is not too tough if you have a 450 Prog. I understand that the finals for these rigs are very hard to find and if found very expensive. But it is a cheap way to get on 220.

The next quarterly meeting of the Repeater Group is scheduled for May 10, 1978 unless otherwise notified.

Jay D. Caldis WB6FUA

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## THE NOVICE NET

By Jim Presley

I have listed here the Q signals we will be using on the Monday night Novice Net. I also have many pink cards with a complete list of Q signals on them and all necessary info on how to receive and send a message correctly. If interested in obtaining one of these cards, please feel free to call me at 939-2847 or see me at the classes on Tuesday nights at College Park High.

Net Control had some antenna Probs earlier this month but a new ant has been installed and we hope there will be no further problem copying the net. If you are not sure on how to check into the net, listen to others who are. Soon you will see how easy it really is and it can be a lot of fun for everyone. Remember, the Novice Net is a place to learn, and mistakes are expected. But I'm confident that as the weeks go by, more and more of you will be right at home handling traffic like the pro's!

I wish to thank all who have worked on the Net and I know it will be well worth it. CU Monday night!

73

Jim WD6CGS

### ARRL QN SIGNALS FOR CW NET USE

- QNF Net is free (not controlled).  
QNI Net stations report in.\*  
I am reporting into the net. (Follow with a list of traffic or QRU.)  
QNV\* Establish contact with....on this frequency. If successful, move to.... and send him traffic for....  
QNX You are excused from the net.\*  
Request to be excused from the net.

\*For use only by the Net Control Station.

### INTERNATIONAL Q SIGNALS

- QRU Have you anything for me?  
(Answer in negative.)  
QRV Are you ready?  
QTC How many messages have you to send?

### ABBREVIATIONS, PROSIGNS, PROWORDS

- AA (Separation between parts of address or signature.)  
AS Stand by; wait.  
BT Separation (break between address and text; between text and signature.)  
CK Check  
DE From; this is (preceding identification)  
IMI Repeat; I say again. (Difficult or unusual words or groups.)  
(cont. next column)

- K Go ahead; over; reply expected.  
N Negative, incorrect; no more. (No more messages to follow.)  
NR Number. (Message follow.)  
PBL Preamble (first part of message).  
R Roger; point. (Received; decimal point.)  
SK Out; clear (end of communication, no reply expected).  
TU Thank you.

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### CONDENSED AND SOMEWHAT REWORDED AND AUGMENTED NEWS FROM RECENT HR REPORTS

Amateur secondary station licenses for individuals will be phased out. Club, RACES, and Military Amateur stations are to be further considered under Docket 21135. Distinctive prefixes for club stations (WK) and military stations (WM) are also proposed. Applications for club, RACES, and military recreation stations have been frozen effective immediately. (We may lose our club call W6CX. It has an expiration date of 6-12-78. - Editor)

Oscar 8 is in orbit. WIAW sends news on Oscar 8. The 10-meter antenna is to be deployed after the spacecraft is completely stabilized.

Repeater licenses aren't required to put a repeater on the air under terms of a waiver effective immediately. Under this waiver the station should be identified with the owner's callsign plus the words "repeater" or "auxiliary" on phone or "/RPT" or "/AUX" on CW.

Sale of 10-meter Amateur Linears are banned. Individual Amateurs can still build their own 10-meter linears. FCC Commissioner Margita White made a strong dissenting statement and further details must be worked out.

Instructors for Amateur radio training classes can write WBLAMU for details on an "Instructor Support Program".

It looks like 1x3 and possibly 2x2 calls will eventually be available to all Techs and higher, with 1x2 and even 2x1 calls reserved for Extra.

A provocative book, "The Zapping of America" by Paul Brodeur claims RF radiation is dangerous but the author's premise is hotly contested by the scientific community. His book deals mostly with microwave radiation but also talks about HF and VLF.

Lively DX conditions should continue, with no disturbances predicted through late March.

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### READING THAT I HAVE LIKED

(Note: One of the things that a Managing Editor can do is to sit back, not write anything himself, and do a lot of quoting. What I will quote here is an article by one of our members Hank Beisheim WB6TZQ. This was first printed in the April 1972 MDARC CARRIER and quoted later in Worldradio News. Only 12% of our 1978 members were members then, and so for most of you this is new. - W6CU)

### RANCHO SORDO MUDO - A VISIT WITH XE2YX

By Hank Beisheim WB6TZQ

Way back in January, I found XE2YX calling CQ. We had a very nice QSO and an invitation to visit him.

Ed Everett, known as XE2YX, and his XYL Margaret own a ranch about 40 km. (25 miles for the people that can't figure it out) n.e. of Ensenada on Hwy. 3 which is used as a home and school for deaf Mexican children.

A non-ham friend and I set out for Mexico during the last half of spring vacation from school. We arrived at Ed's in the late afternoon, just in time for dinner. We met his family and all the deaf children at dinner.

Besides five of his harmonics living there, he has about 12 deaf children, ranging in age from 5 to 18, 3 of which are girls.

After dinner, we got the grand tour of the ranch, 500 acres worth. About 400 acres are rocky hills. He has a house, workshop and a dormitory, with another one under construction, and of course a chow hall.

The ranch is there because Ed feels that there is a need to train deaf people. In Mexico, deaf people have a hard time making it without any schooling. The ranch is supported by donations from churches and other groups, most notably, hams.

We spent  $1\frac{1}{2}$  days longer than planned, helping out, visiting that tourist trap Ensenada, and taking pictures (attn. V.P. we might be willing to show the slides at a meeting if you can't find a program some month). While we were there, a reporter/photographer from the London Mirror showed up to do a story for his paper. The ranch has been written up in the L.A. Times and a story was also done in Worldradio News, the amateur radio paper.

Ed's rig consists of a Swan 270B to a dipole for 40 & 80 and a 14AVQ for 20 meters. Every time he operates is a Field Day. The only source of power is a generator. The Mexican government wants \$3500 to run powerlines across the highway to the ranch. He has access to poles, line, xfmrs, and the people to install it, but unfortunately the government wants to keep Mexico green.

Ed can be found on the Taco Net, 3855 at 1900 local. His signal at that time isn't the greatest but Q-5 if the QRM isn't too bad.

I hopefully will be going back to Rancho Sordo Mudo after school is out. The scenery is beautiful and the air is clean. There is a lot of work to be done before September rolls around. He hopes to have a separate classroom by that time and twice as many kids as he has now. Besides, he invited me to visit again and help out.

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999 Howard Avenue.....

Correspondence

Dear Hal:

Feb. 16, 1978

A couple of months ago I had written you a short note concerning the appellate decision of the Cerritos Antenna case. I enclose a copy of that decision that you and other members may find interesting.

I had mentioned the decision was quite thorough and one of the factors in its decision was the element of safety. Apparently, in the Cerritos case, there was an absence of solid evidence as to the safety of the proposed antenna. In light of this, I think it is a mistake that the Cerritos case has been appealed to the Supreme Court, but that is only one man's opinion.

Please note, however, that in the heavy wind and rain storm of early February, we had a number of antenna towers collapse in the Bay Area. I have heard of seven myself and that two of them caused property damage. Hey, how do you think the neighbors feel about antenna towers when they see one down and even causing property damage? I am assured that nowhere did the winds hit as much as 75 m.p.h. That is exactly the point I was trying to make in my last letter about engineer certified towers. I know there are towers on the market that will topple in a mere 50 m.p.h. gale are going to be a source of continuing problems when it comes to tower regulations. Possibly some of us are at fault in poor guying and erection of the towers contrary to manufacturer's recommendations. But any way you look at it, a tower coming down is not going to win any friends with the zoning and planning people.

73

Enclosure

K6KVX

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Hi Parky:

We finally have settled into what may be a permanent address I hope. So we are sending a couple of cards to you for whomever may want one. We do have our 15 M beam up and are operating at about 4:30 to 5:30 PST 3 or 4 nights each week with LPR & VDJ and will be looking for others . . . . Please take care of our renewal. 73.

(Near 21.425 MHz)

(Chet is General now)

Chet & Pat Pascoe  
WB6TDV/5 & WD6DAJ/5  
3219 Fern  
Pasadena, TX 77503

AMATEUR RADIO TO THE RESCUE

Ted and I both wish to express our thanks to all you fine Amateur Operators. You stood by and got us help when we needed it the most. What a wonderful feeling to be a part of Amateur Radio.

There were so many of you I can't begin to name all, but do want to express a special THANK YOU to Jim Hagan WA6NTI and Stan Bringer WA6IRZ on January 28th, our first "shakedown" with the new Motor Home. Later on in the evening while "limping" home in the dense fog, Dwayne Eskridge W6LKE and John Widener WB6UMT kept the repeater up.

After waiting two weeks for a new transmission, we started out for Santa Cruz and got as far as Mission San Jose turn-off. The Motor Home decided not to cooperate. It sputtered and backfired and that was it. Since we are not accustomed to walking down the freeway to a telephone, I called for help on ABM. Vern WA6RTL in Orangevale, answered me but some kind of individual kept causing interference. Vern told me he would get someone to bring up AHK. Our good friend Peter Strauss WB6YBE (my first contact when I got my Novice license) brought up the repeater. We were in a very poor location for copy. With all the help from the good amateurs and Peter we changed to several repeaters. Peter was able to patch me through to the Motor Home dealer. A big tow truck was dispatched and we were brought home.

Peter, you were so patient and kind to us, we appreciate all you did. I know you said:

"This is what Amateur Radio is all about".

TO ALL OF YOU WHO STOOD BY ON ALL THE  
REPEATERS - THANK YOU

TED AND SALLEY NIKKEL

WA6IVS and WB6FOA

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IN THE NEWS

Marilyn Chapman, daughter of K6WT, won the U.S. National Jr. Elite Championship recently and will travel to Russia and Hungary for a series of three invitational meets.

Joe Rudi WA6PVA, who is in Southern California now getting ready to play baseball again, was in his shack working DX when newsmen and photographers came along and took some pictures for TV, etc.



COMSAT Satellite Test

April 1, 1978

Saturday

Communications Satellite Corporation and the American National Red Cross will test emergency communications from San Francisco Bay Area to Washington, D. C. via satellite on Saturday, April 1, 1978.

A replay of the 1906 earthquake will be simulated as it affected the San Andreas Fault; all Bay Area Red Cross Chapters will be involved.

Reports of damage, requests for mutual aid will be sent from local chapters to Red Cross Division Headquarters in San Francisco using any or all support groups including amateur radio, citizen band, and Civil Air Patrol communications services.

In all probability there will be participation by the Pacific Telephone Company, CAP, REACT, WCARS, Army MARS, and the communications facility of the U S General Services Administration.

At the present time it is anticipated the MDARC will be requested to establish communications with all East Contra Costa County medical facilities, all City government headquarters (usually the Police Department), State Office of Emergency Services, County Emergency Services and other as yet unknown agencies. The "other agencies" will become known as the scenario unfolds on April first.

Right now I anticipate that there will be a need for about 30 sites to be covered by MDARC operators. I do not have the times of the test as yet but this will be announced at a later time. I suggest that those who would like to participate make arrangements with a "buddy" to assist them since developments may make it desirable to have a helper to log messages, act as a "runner" to locate individuals, or check sites, etc. so we may have use for as many as 60 persons.

Our basic communications missions will be to communicate from locations such as Bethel Island to Red Cross-Concord and then from Red Cross-Concord to Red Cross-San Francisco and/or Oakland.

More specific information at a later date via WR6AHK and other devious methods of communications, possibly--heaven forbid--by telephone.

Dwayne Eskridge W6LKE  
MDARC Emergency Coordinator

## ARMED FORCES DAY AMATEUR/MILITARY TEST

Each year on the third Saturday in May, the Department of Defense sponsors the observance of Armed Forces Day. As a part of this observance the Departments of the Army, Navy and Air Force annually conduct communication tests designed to demonstrate to the world the close partnership and mutual respect enjoyed between U S amateur radio operators and the U S Military. This year's program will be conducted on Saturday, May 20, 1978 and all licensed radio amateurs are invited to participate.

The Mount Diablo Amateur Radio Club traditionally operates the Navy Radio Communications Center from Skaggs Island at the north end of San Francisco Bay. This facility uses the radio callsign of NPG.

Skaggs Island is a receiver site and operators at this location use some of the finest radio equipment available to the Federal Government. All transmitters are remotely controlled from the individual operating positions. Most of the transmitters are located in the Stockton area and include rigs running from 5 kilowatts up to 25 or more kilowatts. This is your opportunity to operate super powered equipment, out of the amateur bands--on a clear channel-- and make contacts with other amateurs throughout the world. You will have at your command, exotic antenna farms and antennas that are directional to all points of the globe which are available at your request. Most of the antennas are rhombics, high gain, and highly directional, running for hundreds of feet on each leg. Your amateur license is your "ticket" to operate any of the equipment available. ANY CLASS OF LICENSE ALLOWS YOU TO OPERATE ANY OF THE CIRCUITS. A Novice license is just as good as an Extra Class. Cameras are allowed inside the site and it is OK to take pictures of the event for your scrap book. Coffee, soft drinks and snacks are available on the site. Some are free, and some you put coins in the slots.

Modes available are Single Sideband, Radioteletype, and Radiotelegraph, your choice. Remember Novices can operate any mode. There is no license discrimination.

All contacts made are of the "contest" nature. During the test, there is fierce competition between each of the services to see which group can contact the greatest number of amateurs. There are no "rag chewing" type contacts.

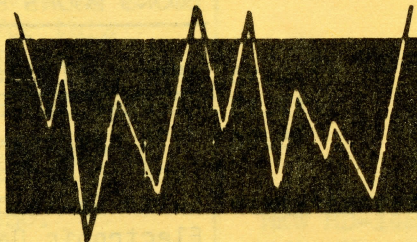
There will be more details at a later date but plan to spend the 20th of May at Skaggs Island--all who show up will operate.

Dwayne Eskridge W6LKE  
MDARC Emergency Coordinator



# THE BASE STATION

CB. MARINE. AMATEUR.  
ANTENNAS. & SUPPLIES



2101 PACHECO STREET  
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PHONE: /415/ 685-7388

\*\*\*\*\*

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2m Gnd Plane 3.4db 19.95  
2m 3 element 12.95  
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2m 8 element 19.95  
2m 14 element 28.95

## VHF/UHF MOBILE ANTENNAS

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Magnet Mount 14.60  
Trunk lip Mount 14.05  
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ed 5/8 wave whips 6.65

NEWTRONICS  
CG144 6db colinear 26.75

\*\*\*\*\*

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AUTEK Keyer with 4  
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MFJ deluxe 69.95  
MFJ C-mos 49.95  
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## 24 HOUR CLOCKS

Wall 8" Diameter 27.00  
Wall 12" Diameter 30.00  
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with alarm 29.95

Turn page over

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TS820S	1098.00		
SP 820	49.00	TEN TEC	
CW 820	49.00		
TS 520S	739.00	509 Argonaut	269.00
DG-5	189.00	540 Triton IV	699.00
SP 520	30.00	544 " "Digital	869.00
CW 520	49.00	570 Century 21	299.00
R599	549.00	574 " " Digital	399.00
T599	549.00	252M Power Supply	119.00
S599	25.00	262M VOX P.S.	145.00
TS700S	729.00	245 CW Filter	25.00
TR7400A	399.00	247 Ant Tuner	69.00
TR7500	299.00	272 28-28.5 Xtal	5.00
R 300	249.95	276 Xtal Calibr	29.00
MC 50 Mic	39.50	KR-5A 12v Keyer	39.50
*****		KR20A Keyer	69.50
		*****	*****

## MIDLAND

13-509 220 Mhz FM 10w  
List \$220.00 \$159.95  
*SPECIAL NOTE: Club Quant-  
ity price, buy 10 or  
more at 139.95 each.*  
13-510 2m, 25w, 4Mhz of  
FM, Synthesized.  
Reg 399.00 Sale Cash 349.  
Crystals for ARG & ANR  
per Crystal \$ 5.95

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## YAESU

FT 901 M	1299.00
FT 101 EX	699.00
FT 101 EE	759.00
FT 101 E	799.00
FRG 7 Shortwave Rx	299.95
FL2100 Linear	479.00
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2202 220 2w	249.95
4502 450 2w	389.95
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MARK IV 2m 5w	249.95
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Battery Pack	18.95
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Cigar Liter Cable	14.95
Leather Case	19.95
2 Meter Crystals	4.95

WE 800 synthesized 2 m  
Portable 459.00

*We will stock the Mk2 &  
Mk4 accessories as avail*  
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CD44 Reg 130.00	109.95
Ham2 Reg 160.00	129.95
Ham3 Reg 160.00	129.95
Ham3 Mast Mtg Plate	29.95

## DRAKE

SSR-1 SW Receiver	279.95
SPR-4 Deluxe Rx	
Reg 699 SaleCash	629.00
FS 4 Freq Synth'r	250.00
W4 Wattmeter	79.00
WV4 VHF Wattmtr	89.00
Filters	
75 ohm HiPass	13.60
300 ohm Hi Pass	10.60
100 Watt Lo-Pass	14.60
2 KW TV3300 LPass	26.60



# THE BASE STATION

## DIGITAL DISPLAYS & FREQUENCY COUNTERS

DSI 500 mhz counters  
7 digit display 139.95

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Yaesu YC601 use with  
FT101 series 199.95

Kenwood DG-5 for use  
with TS520S 189.00

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## LINEARS

Yaesu FL2100B 479.00  
Drake L4B(Cash) 895.00  
Kenwood To be announced  
Dentron To be announced

\*\*\*\*\*

## GOODIES GOODIES GOODIES

QSL Card Holders 1.00  
Mic Holders .50  
Kriket Speakers 14.95  
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Yaesu Microphones 30.00  
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CW Filter 27.95  
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Deluxe tuner does every-  
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8 cond 100' 15.00

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## COAX SWITCHES

B x W "PROTAX" Type  
2 Position 12.95  
5 Position 18.95  
6 Position 18.95  
6 Position Desk Mt 19.95  
"T-R" Switch 17.95

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## ANTENNA HARDWARE

Copper Wire 100' 4.95  
Egg Insulators 8 for 2.00  
End Insulators each .40  
Center Insulator 9.75  
PL259 10 for 6.00  
5 foot masts 2.99  
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Plus all sorts of bases,  
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Bulk and precut coax by  
Columbia, including  
RG8, RG58 and RG8x Super-  
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Dual Meter(Large) 34.95  
Tempo RBF1 42.95  
Drake W4 79.95  
Drake WV4 VHF 89.95  
Swan/Siltronix 69.95  
American Electronic 19.95  
Yaesu YP150 Wattmeter/  
Dummy Load 78.00

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## BOOKS BOOKS BOOKS

ARRL Publications  
License Manual 3.00  
1978 Handbook 8.50  
Tune in World 7.00  
Solid State Design 7.00  
Electronic Data 4.00  
Integrated Ckts 2.00  
Special Comm Tech 4.00  
Understanding AR 5.00  
Course in Radio 4.00  
FM & Repeaters 4.00  
Code Kit (2 Tapes) 8.00  
Oscar Book 3.00  
Antenna Book 5.00  
Operating Guide 4.00  
Log Books 1.75

## Ameco Publications

Novice Course 2.95  
with Code Tape 6.95  
Radio Electronics  
made simple 2.50  
Code Book .75  
Advanced Guide .90  
Extra Guide .90  
*see Code Practice*  
*Goodies section for*  
*more Ameco Code Tapes*

## Other Interesting Books

Beam Antennas (Orr) 4.95  
Cubical Quads (Orr) 4.75  
VHF Handbook (Orr) 5.95

1978 Amateur Radio  
Callbooks  
US Edition 14.95  
DX Edition 13.95

Map Library includes  
3 Maps and DX Atlas  
6.25 Value 3.75

## \*\*\*\*\* SCANNERS SCANNERS

Regency 10 Ch Crystal  
Reg 179.95 Sale 139.95  
Bearcat 210 Programmable  
Reg 350.00 Sale 279.95  
Regency 16 Ch Progmbly  
Reg 330.00 Sale 279.95  
Midland 4 Ch Pocket  
VHF Hi/UHF w/case  
Reg 149.95 Sale 79.95

\*\*\*\*\*

## Low Band Antennas

### HY GAIN

TH3 Jr 3el Tri B 144.50  
TH3 Mk3" " " 199.95  
HyQuad 2 el 3 Bnd 219.95  
TH6DXX 6 el 3 Bnd 249.95  
14AVQ 4 Band Vert 67 .00  
18AVT 5 Band Vert 97.00  
18HT 5 Band Tower 259.95

### Mosley

TA33 jr 3 el 3 Bd 144.50  
TA33 3 el 3 Band 199.95

### CUSHCRAFT

ATB-34 4 el 3 Bnd 239.95

\*\*\*\*\*

### BALUNS

W2AU 160-10 1:1 14.95  
HyGain " " " 15.95  
KLM 144-148 4:1 14.95  
KLM 420-470 4:1 14.95

### Additional Info

We accept B of A Cards,  
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also have Time Payment  
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We also accept phone  
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are shipped prepaid  
anywhere in the US.  
You pay freight on any  
tower, antenna or rotor.

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change and are limited  
to merchandise in stock.

WE THANK YOU FOR YOUR  
PURCHASES AND ASK YOU TO  
CHECK WITH US BEFORE YOU  
BUY. YOUR PURCHASE IS  
APPRECIATED, WHETHER IT  
BE LARGE OR SMALL.

\*\*\*\*\*



For Sale: SSB 100 (Heath) all band Transceiver, 80 through 10 in mint condition and an HP 23 AC Power Supply (Heath), HP 13 DC Power Supply (Heath), a Turner Mobile Mike, and a mobile mounting system - a complete home station or mobile station with all the manuals for only \$395. For this super buy, call John Strater W6CUC at 837-7782 (Home) or 689-6240 (Office).

For Sale: DX 60 B Xmtr. Great Novice rig. \$70

Hallcrafters S85 Receiver \$50.  
AT-1 \$25  
Tube Tester PACO Model 60 \$25  
Jonathan Hymer WB6FJC, 179 Kendall Road,  
Walnut Creek, CA 94595

For Sale: Kenwood TR 2200 A one year old, mint, 12 channels, case, rubber duckie,  $\frac{1}{4}$  wave, nicads, charger, all included.

\$170 or offer  
Louis Brydon WA6OCZ 837-1339

For Sale: National NC-303 Receiver for \$185 and Hallcrafters HT-37 Transmitter for \$140. Receiver covers 160-10 meter Amateur bands plus 11 meters. Transmitter covers 80-15 meter Amateur bands plus a .5 MHz segment of 10 meters. Both are suitable for CW, SSB, & AM. Both recently aligned and they work like new.

Also, GE UHF Progress Line mobile radio, "T" Power Supply, control head, all cables, power relay, and late microphone. Very clean. \$60.00

Dick Webster WA6OJT 284-2046 Lafayette

QST Subscriptions & Renewals \$12.00  
WORLDRADIO Subscriptions & Renewals \$6.25  
Make check out to the Club. Give to our Treasurer John Clyde (address on front page)

Nametags \$2.00 Make check out to the Club and give or send to Harry Howe 5 Las Vegas Road, Orinda, CA 94563.

Wanted by the TVI Committee: Rabbit Ears. Phone K6DQL, K6IMV, N6GQ, or K6VLH.

Notice: If you are vacationing in Canada and want to operate your rig, save time in applying. Get the proper form quickly from VE2AQV, THE BASE STATION.

Notice: Heath at El Cerrito has a full line of Cushcraft antennas.

Notice: For borrowing and reading other radio club papers, see W6CU.

## HEATHKIT ELECTRONIC CENTER

6000 POTRERO AVENUE

EL CERRITO, CALIFORNIA 94530

415 - 236-8870

### NEW HD-1426 FIELD STRENGTH METER HELPS YOU ANALYZE ANTENNA RADIATION PATTERNS

New HD-1426 Field Strength Meter helps you analyze antenna radiation patterns.

Built-in and exterior antennas  
\$12.95 Front panel sensitivity control  
Allows precise xmtr adjustment

A must for ham, citizens band and marine radio enthusiasts. This compact, reliable unit may be used in a mobile or fixed location to measure relative field strength of any 1.8 MHz to 250 MHz signal received from a transmitter. Makes transmitter and antenna (beams, dipoles, verticles, etc.) adjustments quicker and more precise; lets you know transmitter is actually operating (especially ideal for marine uses.) For transmitter outputs from 1 to 1000 watts. A front panel mounted sensitivity control may be used to adjust the on-scale meter reading.

The HD-1426 is extremely compact and is self-powered so it is suitable for portable as well as fixed station operation. The circuit board is well laid out and provides easy assembly. Heath's excellent instruction manual makes the HD-1426 a perfect as well as useful starter kit. Rubber feet are supplied for fixed station installation and handy double-sided foam tape is provided for mounting on or under your car's dash. Supplied with whip antenna.

Kit HD-1426, Shpg. wt. 2 lbs.....\$12.95

HD-1426 SPECIFICATIONS: Frequency Range 1.8 MHz to 250 MHz. Meter accuracy: plus or minus 10% of full-scale reading. Meter Sensitivity: 150 microA, full scale. Dimensions: 2 5/8" H x 4 1/8" W x 4 3/8" D.

Heathkit Electronic Center  
6000 POTRERO AVENUE  
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FREE SOLDERING IRON WITH  
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# LAST MONTH'S PROBLEM (One way to solve it)

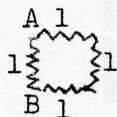


Fig. 1

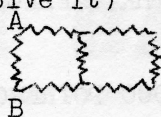


Fig. 2

Consider the resistance from A to B. Use

$$R_T = \frac{R_1 R_2}{R_1 + R_2} \quad \text{and} \quad R_T = R_1 + R_2 + R_3 \quad \text{and for}$$

Fig. 1 get  $\frac{1 \cdot 3}{1 + 3} = .75$  ohms. Adding a 2nd group as in figure 2 we get  $\frac{1 \times 2.75}{1 + 2.75} = .73273$

ohms. If we keep doing this, the chain of resistors gets infinitely long, our calculator batteries go dead, or we get a constant value of .732050875 ohms. This is the value of resistance at one end of an infinite chain like this. But we want the value at any resistor in the middle, so  $R_T = \frac{1}{\frac{1}{R_1} + \frac{1}{R_2} + \frac{1}{R_3}}$ , where

$R_1$  is ohmic value of one chain (say the left end),  $R_2$  is the 1 ohm resistor between A and B, and  $R_3$  is the ohmic value of the other chain (right hand half). Refer to last month's drawing. Plugging in: (continued in next column)

$$R_T = \frac{1}{\frac{1}{2.73205} + \frac{1}{1} + \frac{1}{2.73205}} = .57735 \dots \text{ ohms.}$$

- WA6KGI

Note by Editor - That's the way I worked it and the beauty of this is that .57735..... is the reciprocal of the square root of 3 and that's the superaccurate answer for sure.

- o o o o -

## THIS MONTH'S PROBLEM

Operating a relay at its nominally rated voltage wastes power. Usually half of that voltage or even less is enough to keep the relay fully energized after activation, and the same voltage can also actuate the relay if first given a boost by a simple circuit. This then is the problem. Draw the circuit. No more than two active components allowed.

- WA6KGI

- o o o o -

Thanks WB6FOA, WA6OJT, WB6PUA, WD6CGS, W6LKE, K6KVX, and WA6KGI for sending in write-ups. Thanks WB6TZQ for permission to reprint your April 1972 write-up. Thanks WB6AEG for the picture of the bird. Thanks K6IMV for news. Thanks everybody. All members are the editors. I am the Managing Editor (typist) - W6CU

From  
Mt. Diablo Amateur Radio Club, Inc.  
P.O. Box 23222  
Pleasant Hill, Calif. 94523

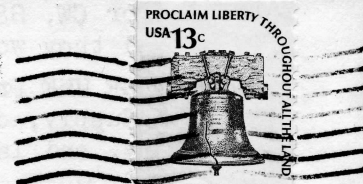
Affiliated with the ARRL  
Affiliated with the American Red Cross  
Member: Amateur Radio News Service

## FIRST CLASS

Cassette tapes of this CARRIER have been made for Jim Gammon, Don Maroney, Dave Rolens, and Mark Pighin. This month's CARRIER was mailed to members Saturday March 11, 1978.

### Distribution:

Paid up 1978 members March 9th	252
Exchanges with other clubs	17
Worthy Organizations and Firms	14
New Licensees	5
Visitors at our last meeting	4
New names in Spring Callbook Supplement	33
Our files	2
Extra copies for possible handouts	5
	332
Minus the "ONE TO A FAMILY CARRIERS"	12
Total printed	320



To:

